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PATENT

Clean claim

1. A combustible fuel composition of diesel fuel and additive as a clear microemulsion with water present wherein said additive comprises:

(a) one or more alcohols selected from the group consisting of

(i) ethanol in an anhydrous state

(ii) ethanol having between 0.5%-25% water by volume of ethanol

(iii) anhydrous or aqueous ethanol of subpart (a)(i) or (a)(ii) with methanol up to 5% by volume of ethanol;

(b) one or more alcohols selected from the group consisting of:

(i) straight- or branched-chain alcohols having between 3 and 5 carbon atoms

(ii) straight- or branched-chain alcohols having between 6 and 12 carbon atoms

(iii) combinations of b(i) and b(ii)

(c) a fatty acid of the structure $R-(C=O)-OH$, wherein R is alkyl or alkylene having between about 10 to 24 carbon atoms, in combination with ammonia or urea in an anhydrous state or as an aqueous solution;

(d) optionally one or more ethoxylated alcohols having between 12 and 16 carbon atoms wherein the ethylene oxide add-on is less than 5 moles;

wherein components a, b, c, and optionally d thereof as the additive

when combined with mixing with diesel fuel form a clear, stable

microemulsion fuel composition having a viscosity within $\pm 10\%$ of the

original viscosity of the diesel fuel, and wherein the ratio of diesel

fuel to additive ranges from about 50:50 to 99:1 by volume, with the proviso that water is present in the composition sufficient to form the microemulsion.